

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 11-246527

(43)Date of publication of application : 14.09.1999

(51)Int.Cl.

C07D213/55
A61K 31/18
A61K 31/34
A61K 31/38
A61K 31/405
A61K 31/41
A61K 31/425
A61K 31/44
// C07C311/19
C07C311/29
C07C311/37
C07D209/20
C07D213/56
C07D257/04
C07D277/16
C07D307/91
C07D333/34
C07D403/12
C07D409/12

(21)Application number : 10-049260

(71)Applicant : SHIONOGI & CO LTD

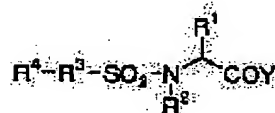
(22)Date of filing : 02.03.1998

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(54) MMP-8 INHIBITOR

(57)Abstract:

PROBLEM TO BE SOLVED: To obtain an inhibitor of MMP-8, which is a kind of matrix meta- protease(MMP), of and useful as a medicament capable of inhibiting the crisis and progression of morbid states accompanied with histotripsy such as chronic rheumatoid arthritis, arthrosis deformans, etc., by using a novel sulfonamide derivative.
SOLUTION: This MMP-8 inhibitor contains a compound expressed by formula I {R1 is a (substituted) lower alkyl or a (substituted) aryl; R2 is H, a lower alkyl or an aralkyl; R3 is a group of formula III or a single bond; R4 is a group expressed by formula III [R5 is H, a (substituted) lower alkyl or the like], 2-halophenyl or the like; Y is NHOH or OH}, its optically active substance, their pharmaceutically allowable salts or their hydrate. The compound of the formula I is obtained, e.g. by reacting a compound expressed by R4-R3-SO2-Hal with an α -amino acid of formula IV (R7 is H or a carboxy-protected group).



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LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

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